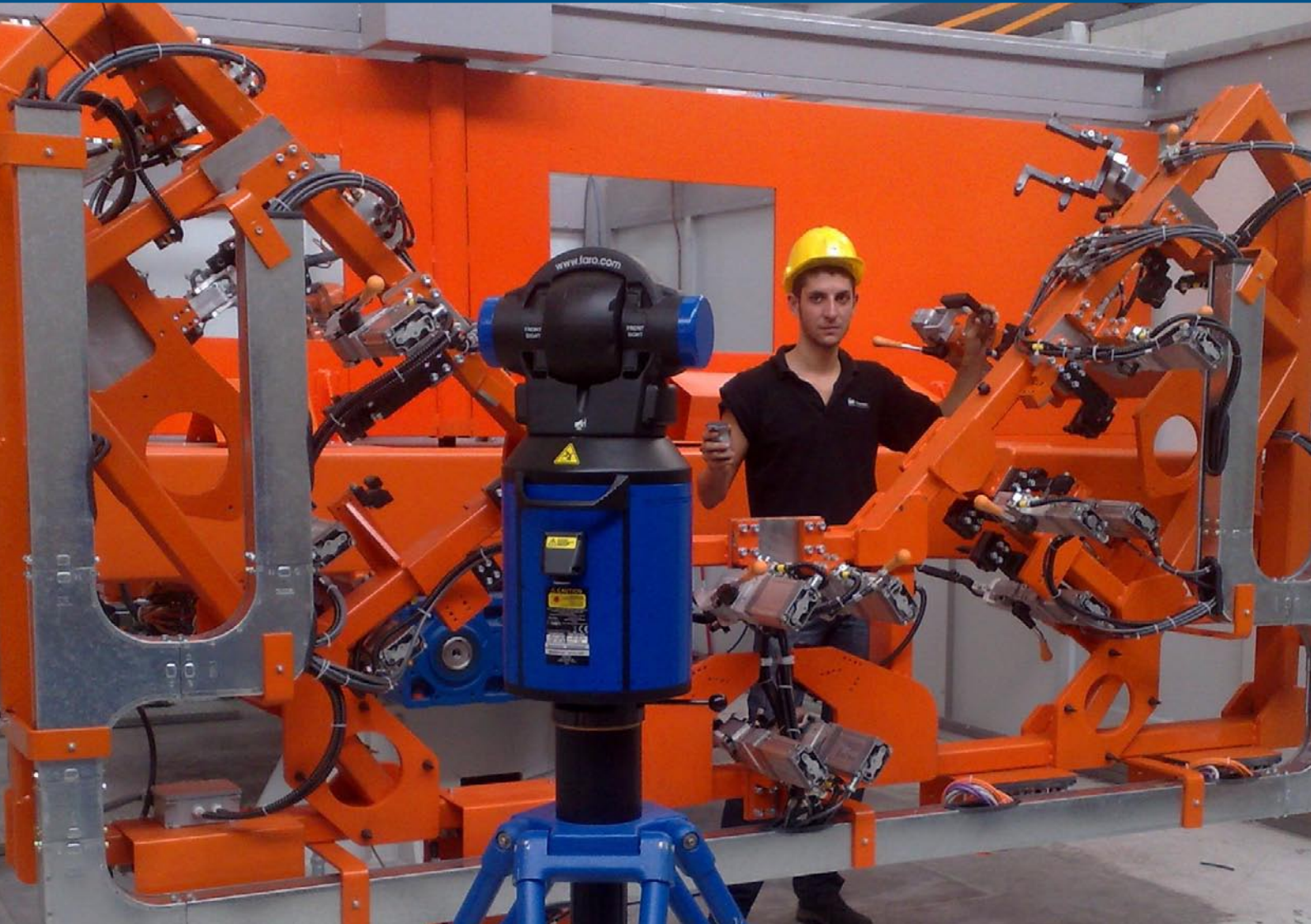


"Thanks to the Laser Tracker we can now work with even greater precision, and thus reduce both costs and work load."

GIAN LUIGI PANZERI, CEO OF TSASOLUTIONS SRL



Certification of welding equipment for aluminium structures with the FARO Laser Tracker.

Serving the automotive industry

TSASOLUTIONS S.R.L. (ITALY) specialises in ultra-modern solutions for the automotive industry. Its CEO, Gian Luigi Panzeri, explains: "We investigate component feasibility by analysing technologies, materials, costs and industrial production programmes, and provide support to the client right up to the start of production."

In addition to definition of the engineering processes, the development of cutting

dies, the manufacture of prototypes and the selection of jointing systems, particular importance is attributed to the measurement and quality control that is carried out throughout the entire workflow. Gian Luigi continues, "As it is frequently necessary to assemble large, complex components such as vehicle chassis or bonnets, we have to produce die moulds and production tools of some considerable size, some of which can be up to six metres in length. At the same time we have to adhere to dimensional tolerances in the range of tenths of a millimetre. For this reason, the measurement and checking

phase is absolutely crucial."

In the search for a suitable measurement solution at TSAsolutions, it was decided against traditional, fixed machinery in favour of innovative products that can reduce measuring inaccuracies. "We decided to try out FARO products. After just a few tests it was quite clear to us that they are very accurate, flexible and easy-to-use devices, which could give us a clear advantage over other companies." Tests also confirmed that it is possible to take high-precision measurements on large objects using the laser, which is very important for TSAsolutions. >>

4 GOOD REASONS

Engineer Gian Luigi Panzeri, CEO of TSAsolutions, pinpoints the following advantages:

1 The Laser Tracker enables high-quality measurements to be taken with a volumetric accuracy ranging from 0.049mm to 10m.

2 This is a sophisticated measuring tool which can be used on the shop floor and does not need a controlled environment. It is not affected in the slightest by changes in ambient temperature.

3 Thanks to the mobility of the measuring device, it can be taken to the measurement location, enabling significant cost and time-savings.

4 The Laser Tracker is a very flexible measuring system, and easy to use.



WWW.FARO.COM/LASERTRACKER

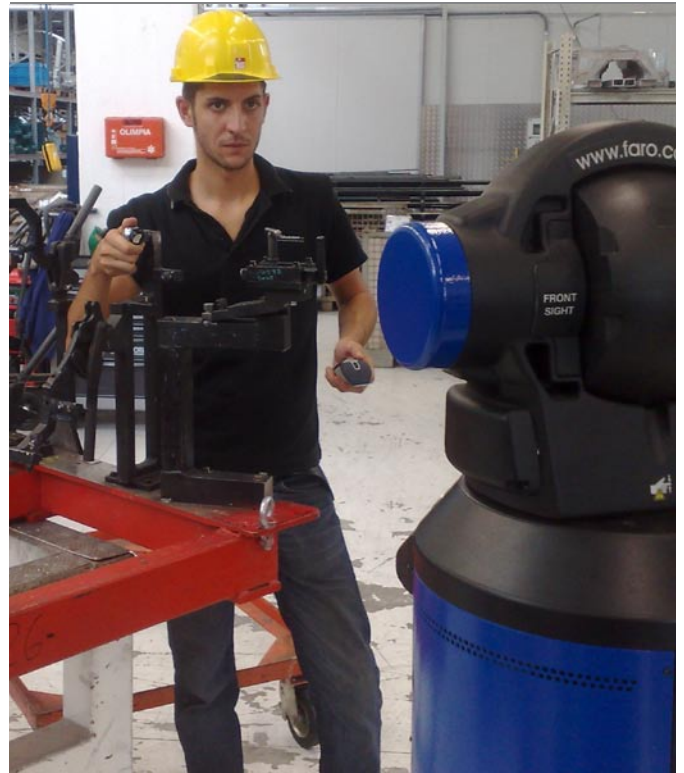


>> For that reason the company decided to acquire two FARO Laser Trackers, which are currently deployed at project building sites under direction of TSAsolutions.

Gian Luigi highlights one of the most important advantages of using the Laser Trackers: "We used to bring most of the heavy and large components and equipment to the testing machines. In contrast, we now take the small and mobile instruments straight to the parts to be measured; as a result we can save on effort, labour



costs, expenditure, personnel and transport facilities." All the processes and interventions can thus be carried out more quickly, there is immediate feedback on the quality of the work, and wasted time, interference and mix-ups between the departments are avoided. In short, the Laser Trackers enable us to optimise production lines, as the certification of equipment, the measurement of parts and the monitoring of procedures are extremely simple and flexible. The investment is quickly paying off, thanks to shorter completion times and the elimination of costs for transporting the objects and appliances." Gian Luigi Panzeri sums it up precisely: "The FARO Laser Tracker is just as accurate, if not more so, than



Geometric equalisation process in the mapping phase in the welding / assembly process.

traditional, fixed machines. In addition to which, the measurement is not compromised by external factors such as temperature, pollutants, etc. As a result, we can operate better on site, with greater accuracy and reliability, and reduce both costs and effort."

ABOUT FARO

FARO (NASDAQ: FARO) develops and markets computer-aided measurement systems and software worldwide. The portable coordinate measuring devices from FARO, together with their industry-specific software solutions, allow high-precision 3D measurements and 3D comparisons of parts and complex systems directly within assembly and production processes. FARO measurement systems are used anywhere where the most accurate measurements are necessary. Today, approximately 9,500 customers worldwide with more than 20,000 installations have put their trust in FARO measurement systems. They can be found in the production and quality assurance processes of leading companies such as ABB, Airbus, Audi, Boeing, BMW, British Aerospace, Daimler, Ford, Goodyear Dunlop, Hewlett Packard, Honda, Johnson Controls, MAN, Miele, Porsche, Siemens, SKF, and Volkswagen.

SUMMARY

As a result of its innovative orientation, TSAsolutions decided against traditional (fixed) measuring applications and

in favour of the FARO Laser Tracker. Its advantages are: precision, flexibility, cost and labour savings.

TSASOLUTIONS

TSAsolutions S.r.l. (Italy) was established in 2006 and specialises in the machining, casting and assembly of components made of lightweight metals, such as aluminium, magnesium and carbon fibre, which are primarily used in the automotive industry. The company currently has a workforce of 40 and can offer advice relating to the technical development of devices, equipment and production processes, on the basis of analyses, tests and

the creation of prototypes, through to the commissioning of the installations. Although the company is still young, TSAsolutions already lists well-known names such as Ferrari, Alcoa and McLaren among its customers – evidence of the high technological quality and great innovative power of its products and services.

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